

THE HISTORICALLY BLACK COLLEGES AND UNIVERSITIES PROGRAM FOR FOSSIL RESEARCH AND EDUCATION

PRIMARY PROJECT LEADER

U.S. Department of Energy
Pittsburgh, PA

MAIN SITES

See listing on back

TOTAL ESTIMATED COST

\$1,000,000 annually

COST SHARING

DOE	\$1,000,000
Non DOE	—

Project Description

In fiscal year 1992, the U.S. Department of Energy's Office of Fossil Energy established the Historically Black Colleges and Universities (HBCU) program to expand research, education, and training opportunities at these institutions. (Starting in fiscal year 1997, the HBCU program will be called "The Historically Black Colleges and other Minority Institutions program.")

Each year, the Office of Fossil Energy solicits research proposals from 127 HBCUs, placing particular emphasis on advanced coal, oil, and natural gas concepts. Proposal applications may be submitted in response to the solicitation's HBCU Core Program or the Faculty/Student Exploratory Program. Typically, the Office of Fossil Energy selects from five to nine university-proposed projects that have the best potential for advancing fossil-energy-related technologies.

Winning projects submitted under the HBCU Core Program receive grants ranging from \$80,000 to \$200,000 for projects that generally take up to three years to complete. Winning projects submitted under the Faculty/Student Exploratory Program receive grants of \$10,000. Research projects cover topics from environmentally compatible technologies for advanced coal conversion and utilization to enhanced oil and natural gas recovery.

Collaborative research efforts between professors and students from Historically Black Colleges and Universities and industrial partners are essential to the success of this program. Student education and training is a high-priority objective of the program. In addition to an industrial partner, each research team must include a teaching professor and at least one student registered at the university, who receives compensation from the Federal grant.

The program is directly funded at \$1 million annually. Since its inception, 32 projects have been supported, representing more than \$3.8 million in Federal funding. Additional funds are provided by other Fossil Energy programs and by industry.

Program Goal

In accordance with the goals of DOE's Strategic Plan, the HBCU program recognizes that first-class scientific studies, both fundamental and applied, are needed to advance global industrial competitiveness, clean energy research, national security, and environmental quality.

The HBCU program provides a forum to facilitate technology transfer, strengthen educational training, and enhance the research capabilities of HBCU for producing for the Nation the next generation of scientists and engineers of diverse backgrounds.

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CONTACT POINTS

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Project Benefits

The Historically Black Colleges and Universities program:

- Serves as a technology base for developing creative ideas and valuable data for generating new and improved products.
- Provides opportunities for developing mentoring relationships with industrial partners.
- Assists in producing the next generation of scientists and engineers of diverse backgrounds from a previously underused resource, who will perform in energy-related R&D programs.

The Office of Fossil Energy augments the goals of this program by sponsoring an annual symposium devoted to fostering interactions among HBCU researchers and Federal and industrial financial resources.

1995 Winning Projects

Clark Atlanta University

Atlanta, GA
*Crude Oil Vanadium Impurities
in Catalysts Deactivation*
\$10,000

Clark Atlanta University

Atlanta, GA
Resid Hydrocracking
\$200,000

Fort Valley State College

Fort Valley, GA
*Advanced Geostatistical
Reservoir Characterization*
\$140,000

Hampton University

Hampton, VA
*Scale-up of Advanced Hot
Gas Desulfurization Sorbents*
\$139,994

Morgan State University

Baltimore, MD
*Development of the Instrumentation
Modeling for Heat Transfer
Characteristics in CFBC*
\$200,000

Prairie View A&M University

Prairie View, TX
*Slag Characterization and Removal
Using Pulse Detonation Technology
for Coal Gasification*
\$135,130

Southern University

Baton Rouge, LA
*SOFC's: Preparation and
Characterization of Solid Electrolytes*
\$104,246